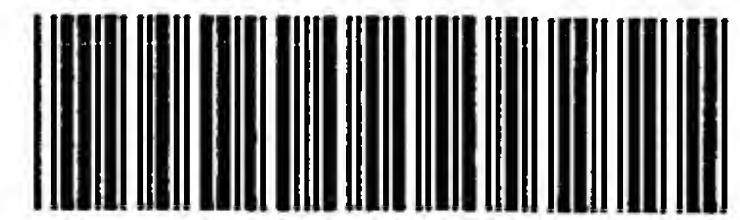


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/522,277
Source: IFW16
Date Processed by STIC: 03/14/2007

ENTERED



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/522,277

DATE: 03/14/2007
TIME: 11:06:37

Input Set : N:\SSLM\10522277.txt
Output Set: N:\CRF4\03142007\J522277.raw

3 <110> APPLICANT: MIZUTANI, Shuki
 4 YAMADA, Takayuki
 6 <120> TITLE OF INVENTION: Transcription regulating factors
 8 <130> FILE REFERENCE: SEN-A0122P
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/522,277
 C--> 11 <141> CURRENT FILING DATE: 2005-01-24
 13 <150> PRIOR APPLICATION NUMBER: JP 2002-217233
 14 <151> PRIOR FILING DATE: 2002-07-25
 16 <160> NUMBER OF SEQ ID NOS: 2
 18 <170> SOFTWARE: PatentIn Ver. 2.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 2684
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Homo sapiens
 25 <220> FEATURE:
 26 <221> NAME/KEY: CDS
 27 <222> LOCATION: (37)..(2601)
 29 <400> SEQUENCE: 1
 30 agcgcgcgac tctcctgtac ctggcatcc agaaaa atg gtg gtg atg gcg cga 54
 31 Met Val Val Met Ala Arg
 32 1 5
 34 ctt tcg cgg ccc gag cg 102
 35 Leu Ser Arg Pro Glu Arg Pro Asp Leu Val Phe Glu Glu Asp Leu
 36 10 15 20
 38 ccc tat gag gag gaa atc atg cg 150
 39 Pro Tyr Glu Glu Ile Met Arg Asn Gln Phe Ser Val Lys Cys Trp
 40 25 30 35
 42 ctt cgc tac atc gag ttc aaa cag ggc gcc ccg aag ccc agg ctc aat 198
 43 Leu Arg Tyr Ile Glu Phe Lys Gln Gly Ala Pro Lys Pro Arg Leu Asn
 44 40 45 50
 46 cag cta tac gag cg 246
 47 Gln Leu Tyr Glu Arg Ala Leu Lys Leu Leu Pro Cys Ser Tyr Lys Leu
 48 55 60 65 70
 50 tgg tac cga tac ctg aag gcg cgt cg 294
 51 Trp Tyr Arg Tyr Leu Lys Ala Arg Arg Ala Gln Val Lys His Arg Cys
 52 75 80 85
 54 gtg acc gac cct gcc tat gaa gat gtc aac aac tgt cat gag agg gcc 342
 55 Val Thr Asp Pro Ala Tyr Glu Asp Val Asn Asn Cys His Glu Arg Ala
 56 90 95 100
 58 ttt gtg ttc atg cac aag atg cct cgt ctg tgg cta gat tac tgc cag 390
 59 Phe Val Phe Met His Lys Met Pro Arg Leu Trp Leu Asp Tyr Cys Gln
 60 105 110 115
 62 ttc ctc atg gac cag ggg cgc gtc aca cac acc cgc cgc acc ttc gac 438

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/522,277

DATE: 03/14/2007
TIME: 11:06:37

Input Set : N:\SSLM\10522277.txt
Output Set: N:\CRF4\03142007\J522277.raw

63	Phe	Leu	Met	Asp	Gln	Gly	Arg	Val	Thr	His	Thr	Arg	Arg	Thr	Phe	Asp		
64	120							125				130						
66	cgt	gcc	ctc	cg	gca	ctg	ccc	atc	acg	cag	cac	tct	cga	att	tgg	ccc	486	
67	Arg	Ala	Leu	Arg	Ala	Leu	Pro	Ile	Thr	Gln	His	Ser	Arg	Ile	Trp	Pro		
68	135							140			145				150			
70	ctg	tat	ctg	cgc	ttc	ctg	cgc	tca	cac	cca	ctg	cct	gag	aca	gct	gtg	534	
71	Leu	Tyr	Leu	Arg	Phe	Leu	Arg	Ser	His	Pro	Leu	Pro	Glu	Thr	Ala	Val		
72								155			160				165			
74	cga	ggc	tat	cg	g	tc	ttc	ctc	aag	ctg	agt	cct	gag	agt	gca	gag	gag	582
75	Arg	Gly	Tyr	Arg	Arg	Phe	Leu	Lys	Leu	Ser	Pro	Glu	Ser	Ala	Glu	Glu		
76								170			175				180			
78	tac	att	gag	tac	ctc	aag	tca	agt	gac	cg	ctg	gat	gag	gcc	gcc	cag	630	
79	Tyr	Ile	Glu	Tyr	Leu	Lys	Ser	Ser	Asp	Arg	Leu	Asp	Glu	Ala	Ala	Gln		
80								185			190				195			
82	cgc	ctg	gcc	acc	gt	gt	aac	gac	gag	cgt	ttc	gt	tct	aag	gcc	ggc	678	
83	Arg	Leu	Ala	Thr	Val	Val	Asn	Asp	Glu	Arg	Phe	Val	Ser	Lys	Ala	Gly		
84								200			205				210			
86	aag	tcc	aac	tac	cag	ctg	tgg	cac	gag	ctg	tgc	gac	ctc	atc	tcc	cag	726	
87	Lys	Ser	Asn	Tyr	Gln	Leu	Trp	His	Glu	Leu	Cys	Asp	Leu	Ile	Ser	Gln		
88	215					220				225					230			
90	aat	ccg	gac	aag	gta	cag	tcc	ctc	aat	gt	gac	gcc	atc	atc	cgc	ggg	774	
91	Asn	Pro	Asp	Lys	Val	Gln	Ser	Leu	Asn	Val	Asp	Ala	Ile	Ile	Arg	Gly		
92								235			240				245			
94	ggc	ctc	acc	cgc	ttc	acc	gac	cag	ctg	ggc	aag	ctc	tgg	tgt	tct	ctc	822	
95	Gly	Leu	Thr	Arg	Phe	Thr	Asp	Gln	Leu	Gly	Lys	Leu	Trp	Cys	Ser	Leu		
96						250			255					260				
98	gcc	gac	tac	tac	atc	cgc	agc	ggc	cat	ttc	gag	aag	gct	cg	gac	gt	870	
99	Ala	Asp	Tyr	Tyr	Ile	Arg	Ser	Gly	His	Phe	Glu	Lys	Ala	Arg	Asp	Val		
100						265			270					275				
102	tac	gag	gag	gcc	atc	cg	g	ac	gt	at	g	cc	ttc	ac	c	ag	918	
103	Tyr	Glu	Glu	Ala	Ile	Arg	Thr	Val	Met	Thr	Val	Arg	Asp	Phe	Thr	Gln		
104						280			285					290				
106	gt	ttt	gac	agc	tac	gc	cag	ttc	gag	gag	agc	at	gt	gct	gca	aag	966	
107	Val	Phe	Asp	Ser	Tyr	Ala	Gln	Phe	Glu	Glu	Ser	Met	Ile	Ala	Ala	Lys		
108	295						300			305					310			
110	at	g	g	ac	gc	tc	g	g	gg	cg	g	g	g	at	gt	gac	1014	
111	Met	Glu	Thr	Ala	Ser	Glu	Leu	Gly	Arg	Glu	Glu	Glu	Asp	Asp	Val	Asp		
112						315			320					325				
114	ctg	gag	ctg	cg	ctg	gc	cgc	ttc	gag	ca	cag	ctc	atc	agc	cg	ccc	1062	
115	Leu	Glu	Leu	Arg	Leu	Ala	Arg	Phe	Glu	Gln	Leu	Ile	Ser	Arg	Arg	Pro		
116						330			335					340				
118	ctg	ctc	ctc	aa	ac	agc	gtc	ttg	ctg	cg	caa	aa	cc	ca	ca	gt	ca	1110
119	Leu	Leu	Leu	Asn	Ser	Val	Leu	Leu	Arg	Gln	Asn	Pro	His	His	Val	His		
120						345			350					355				
122	gag	tgg	cac	aag	cgt	gtc	gc	ctg	cac	cag	ggc	cg	cc	cg	gg	atc	1158	
123	Glu	Trp	His	Lys	Arg	Val	Ala	Leu	His	Gln	Gly	Arg	Pro	Arg	Glu	Ile		
124						360			365					370				
126	atc	aa	cc	tc	ac	ca	gag	g	ct	g	ac	g	cc	ttc	aa	gc	1206	
127	Ile	Asn	Thr	Tyr	Thr	Glu	Ala	Val	Gln	Thr	Val	Asp	Pro	Phe	Lys	Ala		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/522,277

DATE: 03/14/2007
TIME: 11:06:37

Input Set : N:\SSLM\10522277.txt
Output Set: N:\CRF4\03142007\J522277.raw

128	375	380	385	390	
130	aca ggc aag ccc cac act ctg tgg gtg gcg ttt gcc aag ttt tat gag				1254
131	Thr Gly Lys Pro His Thr Leu Trp Val Ala Phe Ala Lys Phe Tyr Glu				
132	395	400	405		
134	gac aac gga cag ctg gac gat gcc cgt gtc atc ctg gag aag gcc acc				1302
135	Asp Asn Gly Gln Leu Asp Asp Ala Arg Val Ile Leu Glu Lys Ala Thr				
136	410	415	420		
138	aag gtg aac ttc aag cag gtg gat gac ctg gca agc gtg tgg tgt cag				1350
139	Lys Val Asn Phe Lys Gln Val Asp Asp Leu Ala Ser Val Trp Cys Gln				
140	425	430	435		
142	tgc gga gag ctg gag ctc cga cac gag aac tac gat gag gcc ttg cgg				1398
143	Cys Gly Glu Leu Glu Leu Arg His Glu Asn Tyr Asp Glu Ala Leu Arg				
144	440	445	450		
146	ctg ctg cga aag gcc acg gcg ctg cct gcc cgc cggtt				1446
147	Leu Leu Arg Lys Ala Thr Ala Leu Pro Ala Arg Arg Ala Glu Tyr Phe				
148	455	460	465	470	
150	gat ggt tca gag ccc gtg cag aac cgc gtg tac aag tca ctg aag gtc				1494
151	Asp Gly Ser Glu Pro Val Gln Asn Arg Val Tyr Lys Ser Leu Lys Val				
152	475	480	485		
154	tgg tcc atg ctc gcc gac ctg gag gag agc ctc ggc acc ttc cag tcc				1542
155	Trp Ser Met Leu Ala Asp Leu Glu Ser Leu Gly Thr Phe Gln Ser				
156	490	495	500		
158	acc aag gcc gtg tac gac cgc atc ctg gac ctg cgt atc gca aca ccc				1590
159	Thr Lys Ala Val Tyr Asp Arg Ile Leu Asp Leu Arg Ile Ala Thr Pro				
160	505	510	515		
162	cag atc gtc atc aac tat gcc atg ttc ctg gag gag cac aag tac ttc				1638
163	Gln Ile Val Ile Asn Tyr Ala Met Phe Leu Glu Glu His Lys Tyr Phe				
164	520	525	530		
166	gag gag agc ttc aag gcg tac gag cgc ggc atc tcg ctg ttc aag tgg				1686
167	Glu Glu Ser Phe Lys Ala Tyr Glu Arg Gly Ile Ser Leu Phe Lys Trp				
168	535	540	545	550	
170	ccc aac gtg tcc gac atc tgg agc acc tac ctg acc aaa ttc att gcc				1734
171	Pro Asn Val Ser Asp Ile Trp Ser Thr Tyr Leu Thr Lys Phe Ile Ala				
172	555	560	565		
174	cgc tat ggg ggc cgc aag ctg gag cgg gca cgg gac ctg ttt gaa cag				1782
175	Arg Tyr Gly Gly Arg Lys Leu Glu Arg Ala Arg Asp Leu Phe Glu Gln				
176	570	575	580		
178	gct ctg gac ggc tgc ccc cca aaa tat gcc aag acc ttg tac ctg ctg				1830
179	Ala Leu Asp Gly Cys Pro Pro Lys Tyr Ala Lys Thr Leu Tyr Leu Leu				
180	585	590	595		
182	tac gca cag ctg gag gag tgg ggc ctg gcc cgg cat gcc atg gcc				1878
183	Tyr Ala Gln Leu Glu Glu Trp Gly Leu Ala Arg His Ala Met Ala				
184	600	605	610		
186	gtg tac gag cgt gcc acc agg gcc gtg gag ccc gcc cag cag tat gac				1926
187	Val Tyr Glu Arg Ala Thr Arg Ala Val Glu Pro Ala Gln Gln Tyr Asp				
188	615	620	625	630	
190	atg ttc aac atc tac atc aag cgg gcg gcc gag atc tat ggg gtc acc				1974
191	Met Phe Asn Ile Tyr Ile Lys Arg Ala Ala Glu Ile Tyr Gly Val Thr				
192	635	640	645		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/522,277

DATE: 03/14/2007
TIME: 11:06:37

Input Set : N:\SSLM\10522277.txt
Output Set: N:\CRF4\03142007\J522277.raw

194 cac acc cgc ggc atc tac cag aag gcc att gag gtg ctg tcg gac gag	2022
195 His Thr Arg Gly Ile Tyr Gln Lys Ala Ile Glu Val Leu Ser Asp Glu	
196 650 655 660	
198 cac gcg cgt gag atg tgc ctg cggtt gca gac atg gag tgc aag ctc	2070
199 His Ala Arg Glu Met Cys Leu Arg Phe Ala Asp Met Glu Cys Lys Leu	
200 665 670 675	
202 ggg gag att gac cgc gcc cggtt gca gac atg ttc tgc tcc cag atc	2118
203 Gly Glu Ile Asp Arg Ala Arg Ala Ile Tyr Ser Phe Cys Ser Gln Ile	
204 680 685 690	
206 tgt gac ccc cgg acg acc ggc gcgtt ttc tgg cag acg tgg aag gac ttt	2166
207 Cys Asp Pro Arg Thr Thr Gly Ala Phe Trp Gln Thr Trp Lys Asp Phe	
208 695 700 705 710	
210 gag gtc cgg cat ggc aat gag gac acc atc aag gaa atg ctg cgt atc	2214
211 Glu Val Arg His Gly Asn Glu Asp Thr Ile Lys Glu Met Leu Arg Ile	
212 715 720 725	
214 cgg cgc agc gtg cag gcc acg tac aac acg cag gtc aac ttc atg gcc	2262
215 Arg Arg Ser Val Gln Ala Thr Tyr Asn Thr Gln Val Asn Phe Met Ala	
216 730 735 740	
218 tcg cag atg ctc aag gtc tgg cgtt ggc acg ggc acc gtg tct gac	2310
219 Ser Gln Met Leu Lys Val Ser Gly Ser Ala Thr Gly Thr Val Ser Asp	
220 745 750 755	
222 ctg gcc cct ggg cag agt ggc atg gac gac atg aag ctg ctg gaa cag	2358
223 Leu Ala Pro Gly Gln Ser Gly Met Asp Asp Met Lys Leu Leu Glu Gln	
224 760 765 770	
226 cgg gca gag cag ctg gcgtt gag gcgtt gag cgt gac cag ccc ttg cgc	2406
227 Arg Ala Glu Gln Leu Ala Ala Glu Ala Glu Arg Asp Gln Pro Leu Arg	
228 775 780 785 790	
230 gcc cag agc aag atc ctg ttc gtg agg agt gac gcc tcc cgg gag gag	2454
231 Ala Gln Ser Lys Ile Leu Phe Val Arg Ser Asp Ala Ser Arg Glu Glu	
232 795 800 805	
234 ctg gca gag ctg gca cag cag gtc aac ccc gag gag atc cag ctg ggc	2502
235 Leu Ala Glu Leu Ala Gln Val Asn Pro Glu Glu Ile Gln Leu Gly	
236 810 815 820	
238 gag gac gag gac gag atg gac ctg gag ccc aac gag gtt cgg	2550
239 Glu Asp Glu Asp Glu Met Asp Leu Glu Pro Asn Glu Val Arg	
240 825 830 835	
242 ctg gag cag cag agc gtg cca gcc gca gtg ttt ggg agc ctg aag gaa	2598
243 Leu Glu Gln Gln Ser Val Pro Ala Ala Val Phe Gly Ser Leu Lys Glu	
244 840 845 850	
246 gac tgaccgtcc ctccccatc cccctcccc acccccctccc caatacagct	2651
247 Asp	
248 855	
250 acgttgtac aaaaaaaaaaaa aaaaaaaaaaaa aaa	2684
253 <210> SEQ ID NO: 2	
254 <211> LENGTH: 855	
255 <212> TYPE: PRT	
256 <213> ORGANISM: Homo sapiens	
258 <400> SEQUENCE: 2	
259 Met Val Val Met Ala Arg Leu Ser Arg Pro Glu Arg Pro Asp Leu Val	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/522,277

DATE: 03/14/2007
TIME: 11:06:37

Input Set : N:\SSLM\10522277.txt
Output Set: N:\CRF4\03142007\J522277.raw

260	1	5	10	15
262	Phe Glu Glu Glu Asp Leu Pro Tyr Glu Glu Glu Ile Met Arg Asn Gln			
263	20	25	30	
265	Phe Ser Val Lys Cys Trp Leu Arg Tyr Ile Glu Phe Lys Gln Gly Ala			
266	35	40	45	
268	Pro Lys Pro Arg Leu Asn Gln Leu Tyr Glu Arg Ala Leu Lys Leu Leu			
269	50	55	60	
271	Pro Cys Ser Tyr Lys Leu Trp Tyr Arg Tyr Leu Lys Ala Arg Arg Ala			
272	65	70	75	80
274	Gln Val Lys His Arg Cys Val Thr Asp Pro Ala Tyr Glu Asp Val Asn			
275	85	90	95	
277	Asn Cys His Glu Arg Ala Phe Val Phe Met His Lys Met Pro Arg Leu			
278	100	105	110	
280	Trp Leu Asp Tyr Cys Gln Phe Leu Met Asp Gln Gly Arg Val Thr His			
281	115	120	125	
283	Thr Arg Arg Thr Phe Asp Arg Ala Leu Arg Ala Leu Pro Ile Thr Gln			
284	130	135	140	
286	His Ser Arg Ile Trp Pro Leu Tyr Leu Arg Phe Leu Arg Ser His Pro			
287	145	150	155	160
289	Leu Pro Glu Thr Ala Val Arg Gly Tyr Arg Arg Phe Leu Lys Leu Ser			
290	165	170	175	
292	Pro Glu Ser Ala Glu Glu Tyr Ile Glu Tyr Leu Lys Ser Ser Asp Arg			
293	180	185	190	
295	Leu Asp Glu Ala Ala Gln Arg Leu Ala Thr Val Val Asn Asp Glu Arg			
296	195	200	205	
298	Phe Val Ser Lys Ala Gly Lys Ser Asn Tyr Gln Leu Trp His Glu Leu			
299	210	215	220	
301	Cys Asp Leu Ile Ser Gln Asn Pro Asp Lys Val Gln Ser Leu Asn Val			
302	225	230	235	240
304	Asp Ala Ile Ile Arg Gly Gly Leu Thr Arg Phe Thr Asp Gln Leu Gly			
305	245	250	255	
307	Lys Leu Trp Cys Ser Leu Ala Asp Tyr Tyr Ile Arg Ser Gly His Phe			
308	260	265	270	
310	Glu Lys Ala Arg Asp Val Tyr Glu Glu Ala Ile Arg Thr Val Met Thr			
311	275	280	285	
313	Val Arg Asp Phe Thr Gln Val Phe Asp Ser Tyr Ala Gln Phe Glu Glu			
314	290	295	300	
316	Ser Met Ile Ala Ala Lys Met Glu Thr Ala Ser Glu Leu Gly Arg Glu			
317	305	310	315	320
319	Glu Glu Asp Asp Val Asp Leu Glu Leu Arg Leu Ala Arg Phe Glu Gln			
320	325	330	335	
322	Leu Ile Ser Arg Arg Pro Leu Leu Leu Asn Ser Val Leu Leu Arg Gln			
323	340	345	350	
325	Asn Pro His His Val His Glu Trp His Lys Arg Val Ala Leu His Gln			
326	355	360	365	
328	Gly Arg Pro Arg Glu Ile Ile Asn Thr Tyr Thr Glu Ala Val Gln Thr			
329	370	375	380	
331	Val Asp Pro Phe Lys Ala Thr Gly Lys Pro His Thr Leu Trp Val Ala			
332	385	390	395	400

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/522,277

DATE: 03/14/2007
TIME: 11:06:38

Input Set : N:\SSLM\10522277.txt
Output Set: N:\CRF4\03142007\J522277.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date